

### POWER PENTODE

-	GENERAL DATA						
	Electrical:						
	Heater, for Unipotential Cathode:  Voltage 6.3 ac or dc volts  Current 0.4 amp  Direct Interelectrode Capacitances (Approx.):  Grid No.1 to plate 0.5 μμf  Grid No.1 to cathode & grid No.3,  grid No.2, and heater 5.5 μμf  Plate to cathode & grid No.3,  grid No.2, and heater 6 μμf						
~.	Mechanical:						
-	Mounting Position	**************************************					
	AF POWER AMPLIFIER - Class A						
	Maximum Ratings, Design-Center Values:						
_	PLATE VOLTAGE						
	Positive bias value 0 max. volts GRID-No.2 INPUT 2.8 max. watts PLATE DISSIPATION 8.5 max. watts PEAK HEATER-CATHODE VOLTAGE:	+					
_	Heater negative with respect to cathode. 200 max. volts Heater positive with respect to cathode. 200 max. volts						
	O without external shield.  ♦ Pin 1 as well as pin 6 is omitted on the 6-Pin bases.						
	▲: See next page. ← Indicates a change.	]					



Typical Operation and Charact	eristics:		<del></del>		-
Plate Voltage		250	215	1.	
Grid-No.2 Voltage	100	250 250	315 250		
Grid-No.1 Voltage	. 100 . –7	-18	-21		
Peak AF Grid-No.1 Voltage	7	18	21		
Zero-Signal Plate Current		32	25.5		
MaxSignal Plate Current		33	28		
Zero-Signal Grid-No.2					
Current	1.6	5.5	4	ma	
MaxSignal Grid-No.2	2	40	_		
Current	104000	10 0000 11	9	ma	
Transconductance		2300	.0000	ohms µmhos	
Load Resistance	12000		9000	ohms	
Total Harmonic Distortion	11	11	15	9	ĺ
MaxSignal Power Output		3.4	4.5	watts	
Maximum Circuit Values:					
Grid-No.1-Circuit Resistance:					
For fixed-bias operation		0.1 m		megohm	
For cathode-bias operation.		0.5 m	ax.	megohm	
PUSH-PULL AF POWER	AMPLIFIER -	Class A			Ì
Maximum Ratings, Design-Cente	r Values:			]	
PLATE VOLTAGE		315 m		volts	
GRID-No.2 (SCREEN-GRID) VOLTA		285 m	ax.	volts	
GRID-No.1 (CONTROL-GRID) VOLT	AGE:	_		_	
Positive bias value				volts	
GRID-No.2 INPUT		2.8 m 8.5 m	_	watts watts	
PEAK HEATER-CATHODE VOLTAGE:		0.5 11	ax.	watts	
Heater negative with respec	t to cathode.	200 m	ax.	volts	
Heater positive with respec				volts	
Typical Operation:					
Values are	for 2 tubes			Ì	
	Fixed Bias	Cathode	Bias		
Plate Voltage	285	285		volts	-
Grid-No.2 Voltage	285	285		volts	
Grid-No.1 Voltage	-25.5	-		volts	
Cathode Resistor	-	400		ohms	
Peak AF Grid-No.1-to- Grid-No.1 Voltage	51	51		volts	
Zero-Signal Plate Current .	55	55		ma	
MaxSignal Plate Current .	72	61		ma	
Zero-Signal Grid-No.2	, <del>-</del>	<b>-</b>			_
Current	9	9		ma	
MaxSignal Grid-No.2					
Current	17	13		ma	
: See next page.		- Indicat	es a c	hange.	
6–56 TUBE	DIVISION		-	DATA 1	

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY



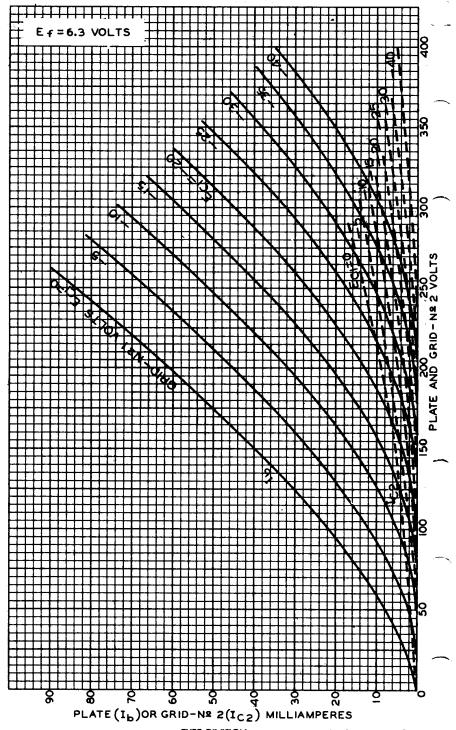
### POWER PENTODE

	Fixed Bias Cathode Bias							
	Effective Load Resistance (Plate to plate) 12000 12000 ohm Total Harmonic Distortion 6 4 MaxSignal Power Output 10.5 9.8 watt	%						
1	Maximum Circuit Values:	-						
	Grid-No.1-Circuit Resistance: For fixed-bias operation0.1 max. megohi For cathode-bias operation0.5 max. megohi							
	AF POWER AMPLIFIER - Class A							
1	Triode Connection - Grid No.2 Connected to Plate							
	Characteristics:							
	Plate Voltage       250       volt         Grid-No.1 Voltage       -18       volt         Amplification Factor       6.8         Plate Resistance (Approx.)       2500       ohm         Transconductance       2700       μπho         Plate Current       37.5       m         Grid-No.1 Voltage (Approx.) for plate current of 0.5 ma       -48       volt	s s s						
	VERTICAL DEFLECTION AMPLIFIER	-						
	Triode Connection - Grid No.2 Connected to Plate	1						
	Maximum Ratings, Design-Center Values Except as Noted:	-						
	For operation in a 525-line, 30-frame system							
	DC PLATE VOLTAGE							
	(Absolute maximum)#	- 1						
	Peak	· 1						
	Average							
	Heater negative with respect to cathode. 200 max. volt	s						
_	Heater positive with respect to cathode. 2004max. volt	s						
	Maximum Circuit Values:							
	Grid-No.1-Circuit Resistance: For cathode-bias operation 2.2 max. megohm	s						
~	The dc component must not exceed 100 volts.  As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations", Federal Communications Commission.  This rating is applicable where the duration of the voltage pulse doe not exceed 15 per cent of one vertical scanning cycle. In a 525-line 30-frame system, 15 percent of one vertical scanning cycle is 2.5 milliseconds.  Under no circumstances should this absolute value be exceeded.	- 1						
	← Indicates a change							
	A AA	-						





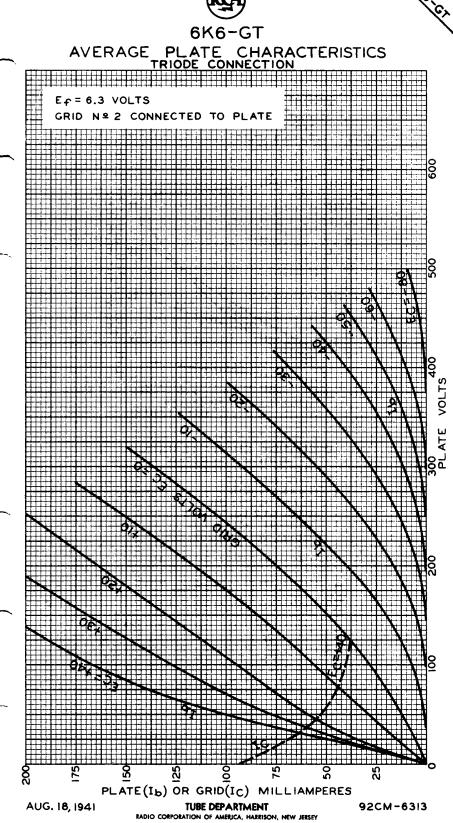
### AVERAGE CHARACTERISTICS



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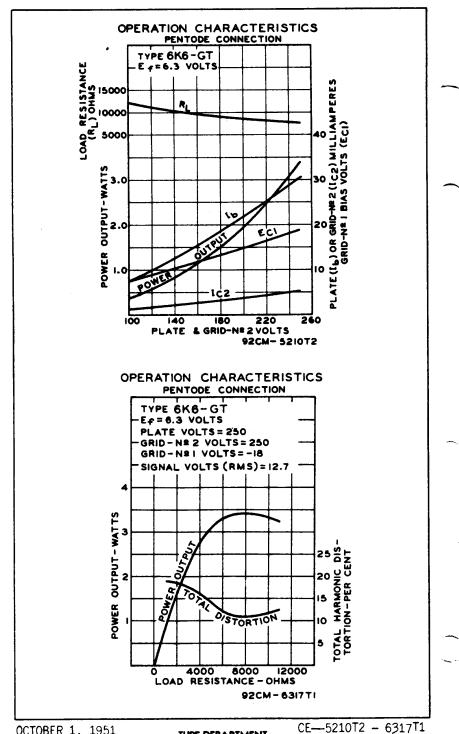
92CM-5209R2







## 6K6-GT POWER PENTODE



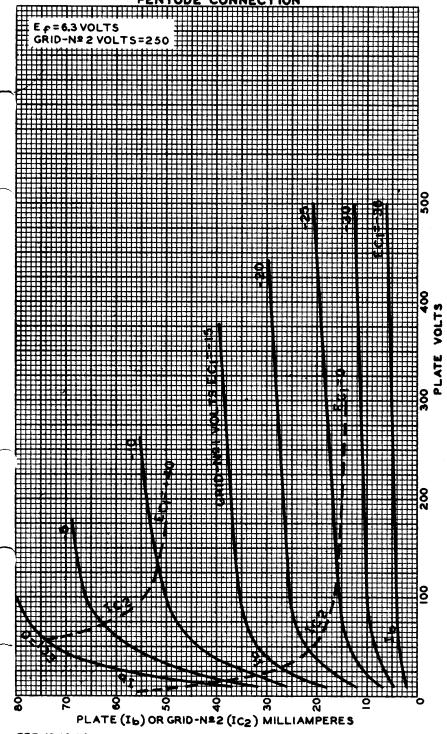
OCTOBER 1, 1951

TUBE DEPARTMENT

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY



# AVERAGE PLATE CHARACTERISTICS PENTODE CONNECTION



FEB. 13, 1948

92CM-488IR2

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AVERAGE PLATE CHARACTERISTICS
PENTODE CONNECTION

